### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization International Bureau



## (43) International Publication Date 24 July 2003 (24.07.2003)

## **PCT**

# (10) International Publication Number WO 03/060421 A1

(51)	International Patent Classification7:
	F42B 3/22

F42D 3/04, (71) Applicant and

(72) Inventor: VAN DYK, Andre [ZA/ZA]; 223 Eland Street, Wierda Park, Centurion, 0002 Pretoria (ZA).

(21) International Application Number: PCT/ZA02/00211

(74) Agent: RADEMEYER, Montague, Ampie, John; Mc-Callum Rademeyer & Freimond, PO Box 1130, 7 Maclyn

- (22) International Filing Date:
  - 17 December 2002 (17.12.2002)
- Callum Rademeyer & Freimond, PO Box 1130, 7 Maclyn House, Bordeaux, 2125 Randburg (ZA).

  (81) Designated States (national): AE, AG, AL, AM, AT, AU,

(25) Filing Language:

English

(26) Publication Language:

English

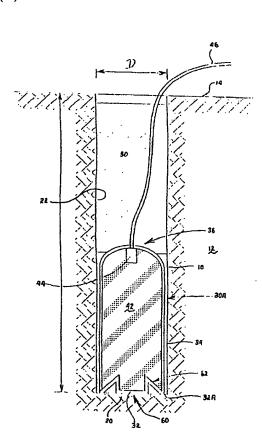
(30) Priority Data:

I I willy Data.		
2001/5467	3 January 2002 (03.01.2002)	ZA
2001/5465	3 January 2002 (03.01.2002)	ZA
2001/5463	3 January 2002 (03.01.2002)	ZA
2001/5462	3 January 2002 (03.01.2002)	ZA
2001/5461	3 January 2002 (03.01.2002)	ZA
2001/5458	3 January 2002 (03.01.2002)	ZA

- AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: EXPLOSIVE PRESSURE WAVE CONCENTRATOR



(57) Abstract: Apparatus for breaking rock which includes a first cartridge (30) with a base (32) and a side wall (34) which form an enclosure, and a propellant (42) inside the enclosure, and wherein a discontinuous relatively weaker region (60) of the container is formed at a junction between the wall and the base.

WO 03/060421 A1